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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/814,329	04/01/2004	Naoki Yoshida	P21-169535M/ISI	5337
	590 01/30/200 LLECTUAL PROPE		EXAMINER	
MCGINN INTELLECTUAL PROPERTY LAW GROUP, PLLC 8321 OLD COURTHOUSE ROAD SUITE 200 VIENNA, VA 22182-3817			HEWITT, JAMES M	
			ART UNIT	PAPER NUMBER
	2102 301,		3679	
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SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MON	THS	01/30/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	-		
	10/814,329	YOSHIDA, NAOKI			
Office Action Summary	Examiner	Art Unit			
	James M. Hewitt	3679			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 136(a). In no event, however, may a will apply and will expire SIX (6) MOI te. cause the application to become A	CATION. reply be timely filed VTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status	•				
1)⊠ Responsive to communication(s) filed on <u>31 (</u>	October 2006				
,	s action is non-final.				
· <u> </u>					
closed in accordance with the practice under	•	·			
Disposition of Claims					
4)⊠ Claim(s) <u>1-4</u> is/are pending in the application.					
4a) Of the above claim(s) 4 is/are withdrawn fi	•				
5) Claim(s) is/are allowed.			-		
6)⊠ Claim(s) <u>1-3</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
9)⊠ The specification is objected to by the Examin					
10)☐ The drawing(s) filed on is/are: a)☐ acc					
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct					
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attache	d Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreigna) All b) Some * c) None of:	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
 Certified copies of the priority document 			•		
Certified copies of the priority document	nts have been received in A	Application No			
Copies of the certified copies of the price		received in this National Stage			
application from the International Burea	au (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a lis	t of the certified copies no	received.			
Attachment(s)					
1) Notice of References Cited (PTO-892)		Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 4/1/04.	Paper No	(s)/Mail Date Informal Patent Application			
F					

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Invention I in the reply filed on 10/31/06 is acknowledged.

Claim 4 is withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Specification

The abstract of the disclosure is objected to because it is in idiomatic English.

Correction is required. See MPEP § 608.01(b).

The disclosure is objected to because of the following informalities:

In claim 11, line 4, shouldn't "1a to 1C" be "2A and 2B"?

Appropriate correction is required.

Claim Objections

Claims 1-3 are objected to because of the following informalities:

In claim 1, line 4, "other" should be "another".

In claim 1, lines 8-9, the phrase "in airtight" is awkward and unclear.

Appropriate correction is required.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshida (JP 2003-021287) in view of Attwood (US 4,911,406).

With respect to claim 1 and with particular reference to Figures 1-7, Yoshida discloses a piping connector comprising: a socket in a tubular shape attached to an end of one pipe to be connected; a plug in a tubular shape attached to an end of other pipe; a seal ring (36) arranged at an inner periphery of the socket; and a hold ring (adjacent o-ring 36) fixedly attached to the inner periphery of the socket, wherein: the pair of pipes are connected by inserting the plug to fit to the socket; and the hold ring includes a groove (Figure 7) in a ring-like shape. Yoshida fails to explicitly teach that the hold ring is welded to the inner periphery of the socket. Attwood teaches that it is known to weld a hold ring or bushing to the inner periphery of a socket. In view of Attwood's teaching, it would have been obvious to one having ordinary skill in the art at the time the invention was made to affix Yoshida's hold ring to the inner periphery of the socket via welding in order to permanently secure the hold ring.

With respect to the recitation "...and is welded to the inner periphery of the socket by ultrasonic welding", the method of forming the device is not germane to the

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issue of patentability of the device itself and does not serve to structurally distinguish the claims.

With respect to claim 2, Yoshida as modified by Attwood fails to teach that the portion has a radius of curvature of 0.2 through 0.5mm. Nevertheless, it would have been obvious to one having ordinary skill in the art at the time the invention was made to form the portion having a radius of curvature of 0.2 – 0.5mm, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art.

With respect to claim 3, wherein the inner periphery of the socket is provided with a first diameter contracted portion and a second diameter contracted portion from a side of an inserting port of the plug, and a stepped portion is formed between the first diameter contracted portion and the second diameter contracted portion. Refer to Figure 7 for various stepped portions between various diameter portions.

With respect to the recitation "the hold ring is pressed to the first diameter contracted portion to weld", the method of forming the device is not germane to the issue of patentability of the device itself and does not serve to structurally distinguish the claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to James M. Hewitt whose telephone number is 571-272-7084.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel Stodola can be reached on 571-272-7087. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JMH 1/20/07

JAMES M. HEWITT
PRIMARY EXAMINER